

App. Ser. No.: 09/440,260

Atty. Doc. No.: D02320

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A method of locating set-top terminals within a cable television system ~~and using location information for said terminals to improve efficient operation of said cable television system, the method~~ comprising:

with a system controller, automatically determining which upstream plant of a plurality of upstream plants transmits a first registration request message to said system controller from a particular set-top terminal ~~that has not communicated with the system controller previously~~ without a request message being sent first from the system controller; and

identifying a downstream plant associated with the upstream plant that transmits ~~said first~~ the registration request message from said set-top terminal;

wherein a location of said set-top terminal within said system comprises an identification of said upstream plant and said associated downstream plant.

2. (Cancelled)

3. (Previously presented) The method of claim 1, further comprising assigning attributes for said set-top terminal based on said location of said set-top terminal, wherein one or more different attributes are assigned to set-top terminals in different locations.

4. (Currently amended) The method of claim 3, further comprising:

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associating attributes for said set-top terminal with each upstream plant and downstream plant in said system;

wherein said assigning said attributes for said set-top terminal is accomplished using attributes associated with said upstream plant that transmits said ~~first~~ registration request message and attributes associated with said downstream plant corresponding to said upstream plant that transmits said ~~first~~ registration request message.

5. (Original) The method of claim 4, further comprising:

associating attributes for said set-top terminal with each upstream path and headend in the system; and

assigning attributes to a set-top terminal based on attributes associated with an upstream path and headend that correspond to that set-top terminal.

6-7. (Cancelled)

8. (Currently amended) The method of claim 7 1, further comprising entering a command to said set-top terminal to cause said set-top terminal to transmit said ~~first signal~~ registration request message.

9. (Original) The method of claim 1, further comprising identifying an upstream or downstream plant that is malfunctioning by identifying a group of said set-top terminals which fail to communicate with said controller, said group of set-top terminals being associated with said malfunctioning upstream or downstream plant.

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10. (Currently amended) The method of claim 1, wherein each of said upstream plants comprise a telephone line over which said set-top terminal sends said ~~first~~ registration request message to said controller.

11. (Currently amended) A system for locating set-top terminals within a cable television system ~~and using location information for said terminals to improve efficient operation of said cable television system~~, comprising:

a system controller;

a population of set-top terminals wherein at least one set-top terminal transmits a registration request message to the system controller without a request message being sent first from the system controller;

a plurality of downstream plants with which said system controller transmits data messages to said set-top terminals; and

a plurality of upstream plants with which said set-top terminals transmit messages to said system controller;

wherein said controller determines a location of each set-top terminal within said system by determining which upstream plant transmits a ~~first~~ the registration request message to said system controller from a particular set-top terminal, a location of which set-top terminal has not been previously obtained by said controller; and identifying a downstream plant associated with that upstream plant that transmits said ~~first~~ registration request message from said set-top terminal.

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12. (Cancelled)

13. (Original) The system of claim 11, wherein said controller assigns attributes for each set-top terminal based on said location of said set-top terminal.

14. (Currently amended) The system of claim 13, wherein:

said controller associates attributes for said set-top terminal with each upstream plant and downstream plant in said system; and

said controller assigns attributes for each set-top terminal using said attributes associated with said upstream plant that transmits ~~said first~~ the registration request message and attributes associated with the downstream plant associated with said upstream plant that transmits ~~said first~~ registration request message.

15-16. (Cancelled)

17. (Currently amended) The system of claim ~~16~~ 11, wherein said set-top terminal transmits ~~said first~~ registration request message to said controller in response to a command entered by a user to said set-top terminal.

18. (Original) The system of claim 11, wherein said controller identifies an upstream or downstream plant that is malfunctioning by identifying a group of said set-top terminals that fail to communicate with said controller, said group of set-top terminals being those having a location defined with said malfunctioning upstream or downstream plant.

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19. (Currently amended) The system of claim 11, wherein each of said upstream plants comprise a telephone line over which said set-top terminal sends ~~said first~~ registration request message to said controller.

20. (Currently amended) A system for locating set-top terminals within a cable television system ~~and using location information for said terminals to improve efficient operation of said cable television system~~, the system comprising:

means for determining which upstream plant of a plurality of upstream plants transmits a ~~first~~ registration request message to a system controller from a particular set-top terminal; ~~wherein a location of said particular set-top within said system was previously unknown~~ without a request message being sent first from the system controller; and

means for identifying a downstream plant associated with the upstream plant that transmits said first message from said particular set-top terminal;

wherein a location of said particular set-top terminal within said system comprises an identification of said upstream plant and said associated downstream plant.

21. (Cancelled)

22. (Original) The system of claim 20, further comprising means for assigning attributes for said set-top terminal based on said location of said set-top terminal.

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23. (Currently amended) The system of claim 20, further comprising means for automatically registering a the particular set-top terminal ~~which has been added to said cable system without advance notice to a system operator,~~ wherein said registering comprises determining said location information for that set-top terminal being registered.

24. (Original) The system of claim 20, further comprising means for providing physical and logical topology information for said cable television system based on said location information of said terminals.

25. (Previously presented) The method of claim 1, further comprising selling said set-top terminal to a subscriber through a retail outlet.

26. (Cancelled)

27. (Currently amended) The method of claim ~~26~~ 1, wherein ~~said~~ the particular set-top terminal once connected to said cable television system, transmits ~~a signal~~ the registration request message to said system controller, ~~said method further comprising receiving said signal from said set-top terminal and, in response thereto, performing said automatically determining which upstream plant of a plurality of upstream plants transmits said signal from said set-top terminal, and said identifying a downstream plant associated with that upstream plant.~~

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28-43. (Cancelled)